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## TECHNICAL FIELD

Piezoelectric Ceramic Material, Multilayer Component and Method for Producing Said Ceramic Material

5 A piezoelectric ceramic material and a method for producing the piezoelectric ceramic material are disclosed. The piezoelectric ceramic material has having the general composition ABO3, which essentially contains lead zirconate titanate and has a perovskite lattice structure, in which A 10 stands for A positions and B stands for B positions in the crystal lattice.

This type of ceramic material is especially well suited for use in multilayer components comprising a stack of multiple ceramic layers and electrode layers arranged alternatingly, one on top of another.

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Piezoceramic components of this type can be used, for example, as actuators in piezo stacks, in which a low-inertia mechanical deflection of comparatively high force is achieved by means of voltage activation; they may also allow the generation of high electric voltages or may be used in relevant devices in the detection of mechanical oscillations or the generation of acoustic vibrations.

## BACKGROUND

Prior technical solutions have been based predominantly on ceramic masses of the perovskite structural type having the general formula ABO3, wherein the piezoelectric properties are brought to bear in the ferroelectric state. Lead zirconate titanate ceramics that